

IN THE SPECIFICATION:

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duration used with an excitation parameter set, and a phase shift of an excitation parameter set, to produce a substantially homogenous foot angle amplitude distribution in said examination volume.

14. (New) A magnetic resonance system comprising:

5 a magnetic resonance scanner having a plurality of resonator segments that are electromagnetically decoupled from each other;

a control and evaluation device connected to said plurality of resonator segments;

10 said control and evaluation device storing predetermined, segment-specific excitation parameters for the respective resonator segments; and

15 said control and evaluation device separately activating said plurality of resonator segments corresponding to said excitation parameters in a temporal sequence within an excitation sequence using different sets of said excitation parameters with phase distributions of the nuclear magnetization distributions in the examination volume, said nuclear magnetization distributions constructively overlapping to form a resulting homogenous total
20 nuclear magnetization distribution in said examination volume by changing said different parameter sets and using a number of said different parameter sets to cause local power losses, introduced into the examination volume as a consequence of activation of the respective segments with said parameter sets, to
25 be locally differently situated in the patient, with said local power losses not coinciding and not mutually reinforcing during said excitation sequence.